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(21)Application number : 02-331241 (71)Applicant : BANDO CHEM IND LTD

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(54) BONDING OF HYDROGENATED NITRILE RUBBER COMPOUND AND FIBER

(57)Abstract:

PURPOSE: To enable the bonding of a fiber and a hydrogenated nitrile rubber compound useful for tire, etc., in high adhesivity and peel strength by contacting and vulcanizing a specific hydrogenated nitrile rubber compound and a specific fiber material.

CONSTITUTION: A hydrogenated nitrile rubber compound having a hydrogenation degree of 80-99% and containing preferably 5-60 pts.wt. (based on 100 pts.wt. of the rubber) of an ethylenic unsaturated carboxylic acid metal salt (e.g. zinc acrylate) and preferably 0.2-10 pts.wt. of an organic peroxide (e.g. dicumyl peroxide) is bonded to a fiber material such as aromatic polyamide fiber by treating the fiber material with a treating solution containing a urethane- modified epoxy compound and a hardener for epoxy compound, treating with a mixture of resorcinol, formalin and a rubber latex, contacting with the above hydrogenated nitrile rubber compound and vulcanizing the product.

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